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Title: **JP8045526A2: MULTISTAGE REACTION TYPE FUEL CELL**

Country: **JP Japan**

Kind: **A**

Inventor(s): **SAITO HAJIME**

Applicant/Assignee



**ISHIKAWAJIMA HARIMA HEAVY IND CO LTD**  
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Issued/Filed Dates: **Feb. 16, 1996 / Aug. 3, 1994**

Application Number: **JP1994000181685**

IPC Class: **H01M 8/04;**

ECLA Code: **H01M8/04C2;**

Priority Number(s): **Aug. 3, 1994 JP1994000181685**

Abstract:



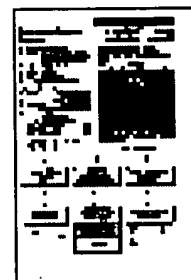
**Purpose:** To reduce the evaporation of an electrolyte and to suppress its consumption, by combining plural fuel cells, anode gas lines, a recycle line, and air feeding lines, in the condition to exercise a specific function.

**Constitution:** This multistage reaction type fuel cell is provided with plural fuel cells 20a, 20b, and 20c to generate the power by using an anode gas 2 including hydrogen, and a cathode gas 3 including oxygen; anode gas lines 24a and 24b, and cathode gas lines 25a and 25b, which combine the anodes and the cathodes of the plural fuel cells 20a, 20b, and 20c in series respectively; a recycle line 26 to recirculate the cathode gas (the cathode exhaust gas) passing through the fuel cell 20c at the lowermost downstream side, to a cathode inlet side at the uppermost upstream side; and air feeding lines 27a and 27b to feed a low temperature air to the cathode gas lines 25a and 25b between fuel cells.

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Family: [Show known family members](#)

Other Abstract Info: **CHEMABS 124(20)265729E CAN124(20)265729E**  
**INFRARS C96.164935 INFRARS C96.164935**



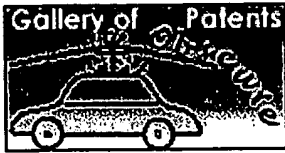
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## (54) MULTISTAGE REACTION TYPE FUEL CELL

(57) Abstract:

**PURPOSE:** To reduce the evaporation of an electrolyte and to suppress its consumption, by combining plural fuel cells, anode gas lines, a recycle line, and air feeding lines, in the condition to exercise a specific function.

**CONSTITUTION:** This multistage reaction type fuel cell is provided with plural fuel cells 20a, 20b, and 20c to generate the power by using an anode gas 2 including hydrogen, and a cathode gas 3 including oxygen; anode gas lines 24a and 24b, and cathode gas lines 25a and 25b, which combine the anodes and the cathodes of the plural fuel cells 20a, 20b, and 20c in series respectively; a recycle line 26 to recirculate the cathode gas (the cathode exhaust gas) passing through the fuel cell 20c at the

